Large Animal Management

Course Description:

This course includes advanced scientific principles and communication skills that build on the knowledge and skills learned in Animal Science. Topics include animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Code: 011005

Endoresements to teach: AFNR

Programs of Study to which this Course applies:
Animal Systems
Animal Systems Plus

AFNR.HS.2.2	
Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.	
AFNR.HS.2.2.a	Demonstrate management techniques that ensure animal welfare.
AFNR.HS.2.2.b	Analyze procedures to ensure that animal products are safe for consumption.

AFNR.HS.2.3	
Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.	
AFNR.HS.2.3.a	Analyze nutritional needs of animals.
AFNR.HS.2.3.b	Analyze feed rations to examine if they meet the nutritional requirements of animals.
AFNR.HS.2.3.c	Utilize industry tools to make animal nutrition decisions.

AFNR.HS.2.4	
Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.	
AFNR.HS.2.4.a	Evaluate animals for breeding soundness and readiness.
AFNR.HS.2.4.b	Apply scientific principles to select and care for breeding animals.
AFNR.HS.2.4.c	Apply scientific principles to breed animals.

AFNR.HS.2.5	
Evaluate environmental factors affecting perrformance and implement procedures for enhancing perfrmance and animal health.	
AFNR.HS.2.5.a	Design animal housing, equipment, and handling facilities for the major systems of animal production.
AFNR.HS.2.5.b	Interpret government regulations and safety standards for facilities used in animal production.

AFNR.HS.2.6	
Classify, evaluate and select animals based on anatomical and physiological characteristics.	
AFNR.HS.2.6.a	Classify animals according to taxanomic classification systems and use.
AFNR.HS.2.6.b	Apply principles of comparative anatomy and physiology to uses within animal systems.
AFNR.HS.2.6.c	Select and train animals for specific purposes and maximize performance based on anatomy and physiology.

AFNR.HS.2.7	
Apply principles of effective animal health care.	
AFNR.HS.2.7.a	Design programs to prevent animal diseases, parasites, and other disorders and ensure animal welfare.
AFNR.HS.2.7.b	Develop a biosecurity plan and procedures to prevent the spread of disease.

AFNR.HS.2.8	
Analyze environmental factors associated with animal production.	
AFNR.HS.2.8.a	Design and implement methods to reduce the effects of animal production on the environment.
AFNR.HS.2.8.b	Evaluate the effects of environmental conditions on animals and create plans to ensure favorable environments for animals.

AFNR.HS.CR.1
Describe career opportunities and means to achieve those opportunities in each of the AFNR career pathways.

AFNR.HS.CR.1.a	Evaluate and implement the steps and requirements to pursue a career opportunity in an AFNR career pathway.
AFNR.HS.CR.1.b	Examine and choose career opportunities that are matched to personal life skills, talents, and career goals in an AFNR pathway of interest.
AFNR.HS.CR.2	
Demonstrate employability skills for college and career readiness.	
AFNR.HS.CR.2.a	Model personal responsibility in the workplace and community.
AFNR.HS.CR.2.d	Synthesize information, knowledge and experience to generate original ideal and challenge assumptions in the workplace and community.
AFNR.HS.CR.2.e	Apply reason and logic to evaluate workplace and community situations from multiple perspectives.
AFNR.HS.CR.2.f	Investigate, prioritize and select solutions to solve problems in the workplace community.
AFNR.HS.CR.2.g	Contribute to team-oriented projects and builds consensus to accomplish results using cultural global competence in the workplace and community.
AFNR.HS.CR.3	
Identify and demonstrate personal financial management and planning.	
AFNR.HS.CR.3.a	Design and implement a personal financial management plan.
AFNR.HS.CR.4	
Identify and demonstrate workplace safety.	
AFNR.HS.CR.4.a	Identify and explain the implication of required regulations to maintain and improve safety, health and environments management systems.
AFNR.HS.CR.4.b	Apply health and safety practices to AFNR workplaces.
AFNR.HS.CR.4.c	Use appropriate protective equipment and demonstrate safe and proper use of AFNR tools and equipment.
AFNR.HS.CR.5	
Evaluate the nature and scope of the AFNR Career Cluster and the role of agriculture, food and natural resources (AFNR) in society and the economy.	
AFNR.HS.CR.5.b	Identify public policies and examine their impact on AFNR systems.
AFNR.HS.CR.5.c	Examine the components of the AFNR systems and assess their impact on the local, state, national and global society and economy.
AFNR.HS.CR.6	
Identify and demonstrate leadership skills and traits in demand of leadership roles in the agriculture industry.	
AFNR.HS.CR.6.b	Craft SMART goals to achieve by the end of a specific agricultural education course.
AFNR.HS.CR.6.c	Write a career objective.
AFNR.HS.CR.6.f	Write and deliver a speech focused on a currently controversial topic within the agricultural industry while arguing both points of view.